

# OPTICAL DISC DRIVE WHICH CAN FIRMLY FIX ITS TRAY MODULE WITHIN ITS HOUSING

## Abstract

An optical disc drive includes a housing, a positioning shaft fixed on the housing, and a tray module. The tray module includes a tray installed inside the housing with the ability to slide, a solenoid fixed on the tray for providing magnetic force, a latch installed beside the solenoid moving in response to changes in magnetic force, a push pod fixed on the tray in a rotatable manner with one end connected to the latch and the other end forming a slot, a hook rotatably fixed on the tray with one end for engaging the positioning shaft and the other end connected to the push pod, a torsion spring fixed on the pivot of the push pod, and a compression spring installed in a track of the housing. One end of the compression spring is fixed in the slot of the push pod.